

Work Order ID 85210

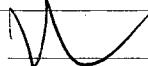
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Page 1

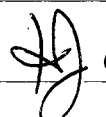
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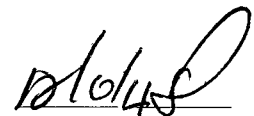
Item ID: DSI 9379-013 Accept *N900040100* Setup Start *NS1*
 Revision ID: Stop *NS2*
 Item Name: Cargo Mirror Upgrade
 Start Date: 6/04/12 Start Qty: 2.00 *2* Cust Item ID:
 Required Date: 6/04/12 Req'd Qty: 2.00 *2* Customer:

Reference:

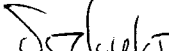
Approvals: Process Plan:  Date: Tooling: Date: Run Start *NR1*
 QC: Date: SPC (Y/N): Date: Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
100	DOCUMENT CONTROL	0.00							
100									
DC	Memo	0.00							
Document Control	Photocopy DSI 9379 and create labels per PPP DSI 9379-011 CHG001								
105	Pick Kit	0.00							
105									
Packaging	Memo	0.00							
Packaging									
110	QC4- 100% Inspect kits for completeness	0.00							
110									
QC	Memo	0.00							
Quality Control									

 for MLS 12-6-5
 (2)







Picklist Print

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Work Order ID: 85210

Parent Item: DSI 9379-013

Parent Item Name: Cargo Mirror Upgrade

Start Date: 6/04/12

Required Date: 6/04/12

Start Qty: 2.00

Required Qty: 2.00

Comments: IPP rev A 10.02.16 new issue EC verified by:DD

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
AN4-5A Bolt		Purchased	No			100	Each	929.0000	2	4			
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				ST355		929							
				120562		929							
AN960JD416 Washer	NAS1149D0463J	Purchased	No			100	Each	30.0000	4	8		12/25/12	
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				ST351		30							
				116289		10							
				119097		20							
D4070-041 Clamp		Manufactured	No			100	Each	5.0000	2	4			
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				ST460		5							
				77703		5							
MS21042L4 Nut		Purchased	No			100	Each	3,904.0000	2	4		12/6/12	
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				ST300		3904							
				119075		116							
				121011		531							
				121444		2957							
				121652		300							

DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS D350-561 REV. C

REF. CANADIAN STC: SH91-20 ISSUE 2

REF. FAA STC: SH856NE

To reduce vibration, Dart has developed the D350-561-141/-143 Mirror Installations to replace the D350-561-041/-043 Mirror Installations. For customers with D350-561-041/-043 Mirror Installations at CHG 005 or earlier who would like to upgrade their installation, the DSI 9379-011 Upgrade Kit can be obtained from Dart. The components for DSI 9379-011 Kit are as defined in Section 1.0 below.

Customers upgrading their installation from D350-561-041/-043 to D350-561-141/-143 should follow instructions given in Figures 1 through 5 of DSI 9379 and refer to Installation Instructions D350-561 Rev. C as applicable.

Customers who are installing a D350-561-141/-143, should refer to Figures 2 through 5 of DSI 9379 and refer to Installation Instructions D350-561 Rev. C as applicable.

This service instruction details the D350-561-141/-143 kits at CHANGE 003 or later, which use D4070-041 Clamps (replaces MS21919WDG7 clamps). For -141/-143 kits at earlier change numbers, the DSI-9379-013 Upgrade kit is available to replace the mil-spec clamps with more robust D4070-041 Clamps.

1.0 PARTS LIST

Qty -141	Qty -143	Qty -045	Qty -011	Qty -013	Part Number	Description
X	1				D350-561-141	SINGLE MIRROR INSTALLATION (REPLACES -041)
	X				D350-561-143	DUAL MIRROR INSTALLATION (REPLACES -043)
	1	X			D350-561-045	MIRROR KIT
			X		DSI-9379-011	UPGRADE KIT
				X	DSI-9379-013	UPGRADE KIT
1		1			D2011-101	MIRROR
1					D2012-105	ARM
1					D2012-107	CLEVIS
1					D2012-111	BRACKET
		2			D2012-113	CLAMP
1					D2012-115	BRACKET
2					D2022-101	SPACER
1*		1*			D3014-1	LOCKNUT
1			1		D3629-1	BRACKET
1			1		D3635-1	GASKET
2			2		D3635-3	GASKET
1			1		D3646-1	ARM
1			1		D3646-3	ARM
2			2		D4070-041	CLAMP
3			3		AN3-4A	BOLT
1					AN3-6A	BOLT
3			2	2	AN4-5A	BOLT
1					AN4-10A	BOLT
8			6		AN960JD10	WASHER
8			4	4	AN960JD416	WASHER
1*		1*			AN960JD416L	WASHER
4			3		MS21042L3	NUT (OR MS21042-3)
4			2	2	MS21042L4	NUT (OR MS21042-4)

*INCLUDED AS PART OF D2011-101 MIRROR

CANADA
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AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

BY: *D. Shepherd*
D. SHEPHERD (DE # 02)

DATE: 10.02.12
CERT. NO.: SH91-20
ISSUE NO.: 2

C	D4070-041 WAS MS21919WDG7	CP	10.02.12
B	MS21919WDG7 WAS MS21929WDG7	DC	07.11.26
A	NEW ISSUE	MB	07.07.10
REV.	DESCRIPTION	BY	DATE
DESIGN		DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
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MFG. APPR.	N/A		
APPROVED			
DE APPR.		DRAWING NO.	REV. C
		DSI 9379	SHEET 1 OF 5
		TITLE	SCALE
		CARGO MIRROR UPDRAGE KIT	NTS
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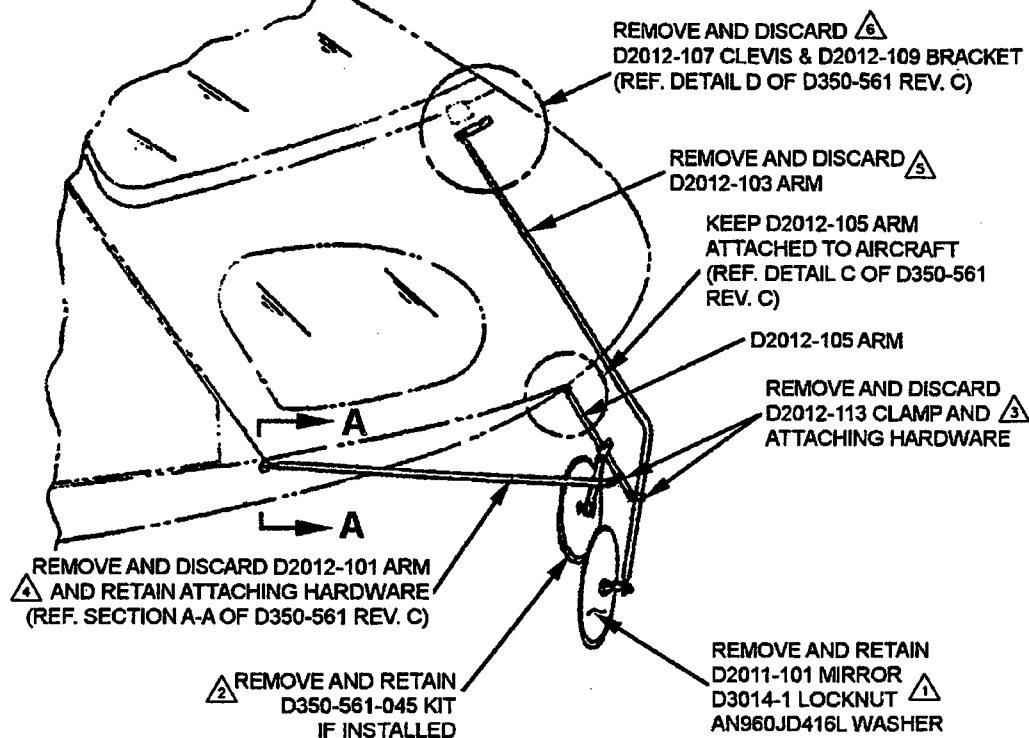


FIGURE 1: REMOVAL OF D350-561-041/-043 FOR CONVERSION TO D350-141/-143

2.0 REMOVAL (IF CONVERTING FROM -041/-043 TO -141/-143 USING DSI 9379-011)

- 1) REMOVE AND RETAIN D2011-101 MIRROR AND ATTACHING FASTENERS.
- 2) REMOVE AND RETAIN D350-561-045 KIT.
- 3) REMOVE AND DISCARD D2012-113 CLAMPS AND ATTACHING HARDWARE (2 PLACES).
- 4) REMOVE AND DISCARD D2012-101 ARM. LEAVE D2012-115 BRACKET AND HARDWARE ATTACHED TO THE AIRCRAFT.
- 5) REMOVE AND DISCARD D2012-103 ARM.
- 6) REMOVE AND DISCARD D2012-107 CLEVIS. AT THE INSTALLER'S DISCRETION, THE D2012-109 BRACKET CAN BE REMOVED OR CAN REMAIN INSTALLED. WHETHER OR NOT THE D2012-109 BRACKET IS BEING REMOVED, ENSURE BOTH SCREWS ARE RE-INSTALLED.

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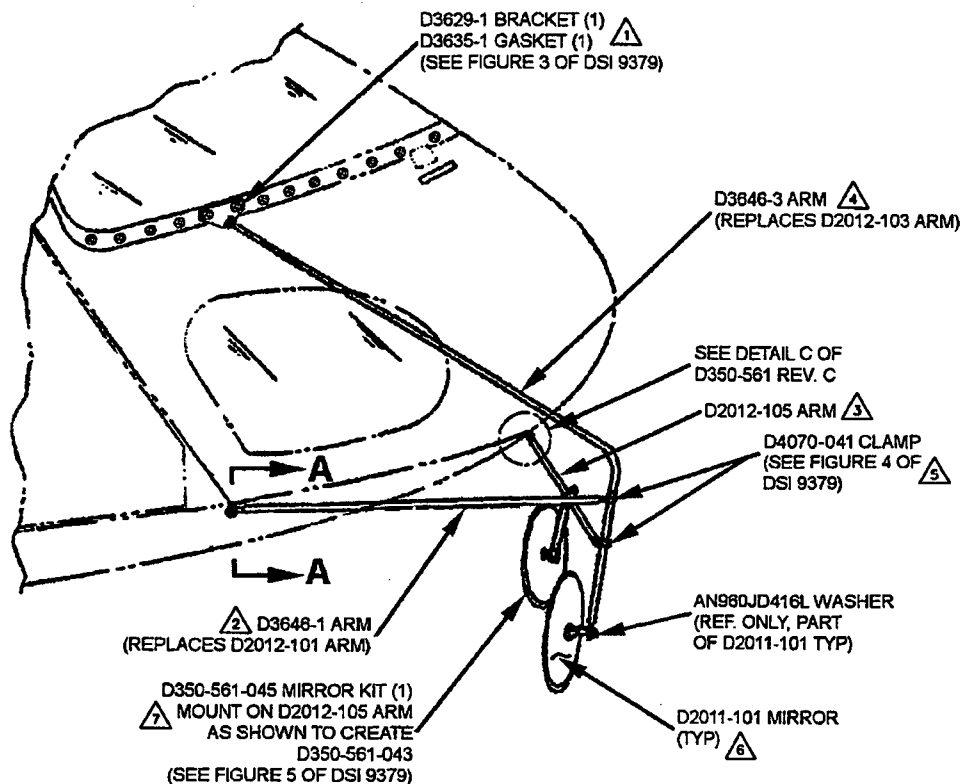


FIGURE 2: D350-561-141/-143 INSTALLATIONS







3.0 INSTALLATION

- 1) INSTALL D3629-1 BRACKET AND D3635-1 GASKET USING EXISTING SCREWS ON WINDOW. IT IS ACCEPTABLE TO SUBSTITUTE SCREWS WITH LONGER SCREWS OF SAME TYPE.
- 2) INSTALL D3646-1 ARM PER SECTION A-A OF D350-561 REV. C. **NOTE:** D3646-1 REPLACES D2012-101.
- 3) INSTALL D2012-105 ARM PER DETAIL C OF D350-561 REV. C.
- 4) INSTALL D3646-3 ARM. **NOTE:** D3646-3 REPLACES D2012-103.
- 5) ATTACH D3646-1 ARM AND D2012-105 ARM TO D3646-3 ARM USING D4070-041 CLAMPS.
- 6) MOUNT D2011-101 MIRROR ONTO D2012-103 ARM.
- 7) IF INSTALLING THE D350-561-143 KIT, INSTALL D350-561-045 MIRROR KIT PER FIGURE 5 OF DSI 9379.

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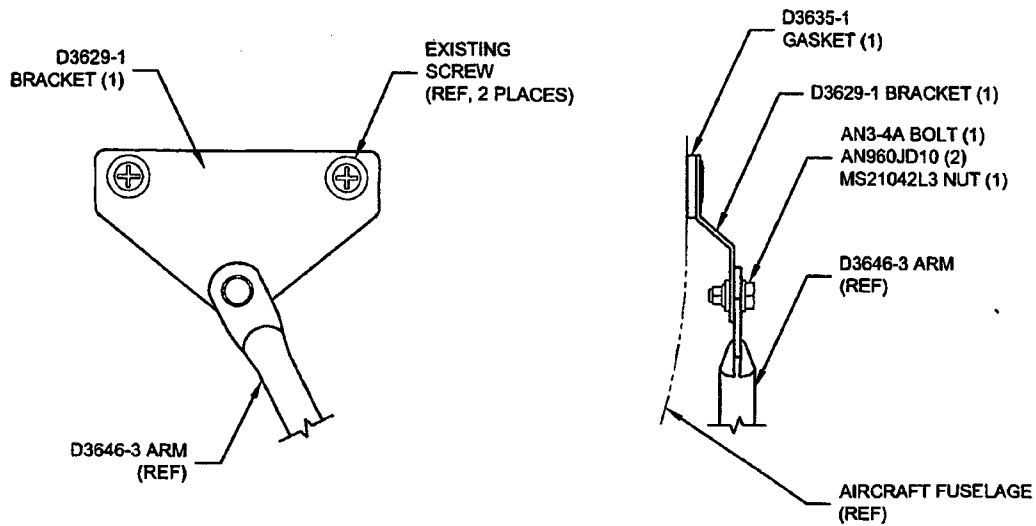


FIGURE 3: D3629-1 BRACKET/D3646-3 ARM INSTALLATION

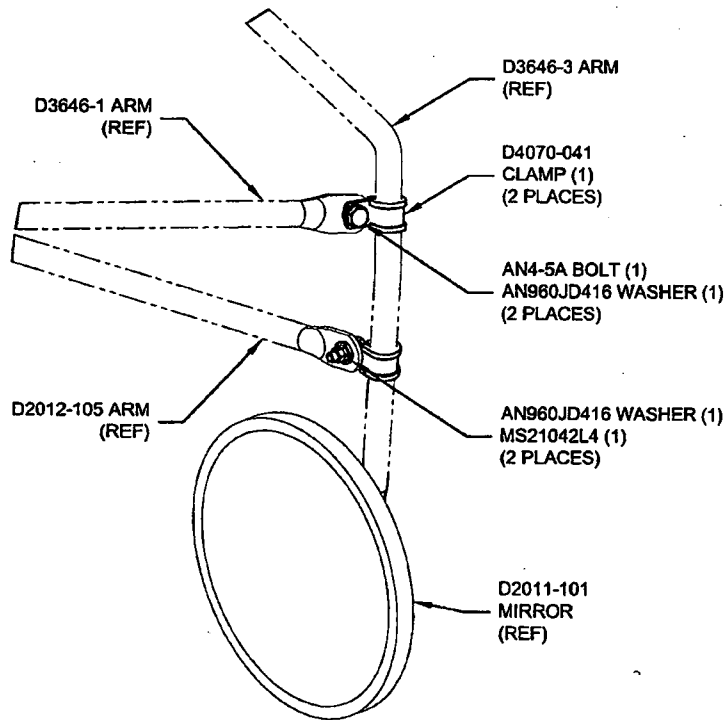


FIGURE 4: D4070-041 CLAMP INSTALLATION

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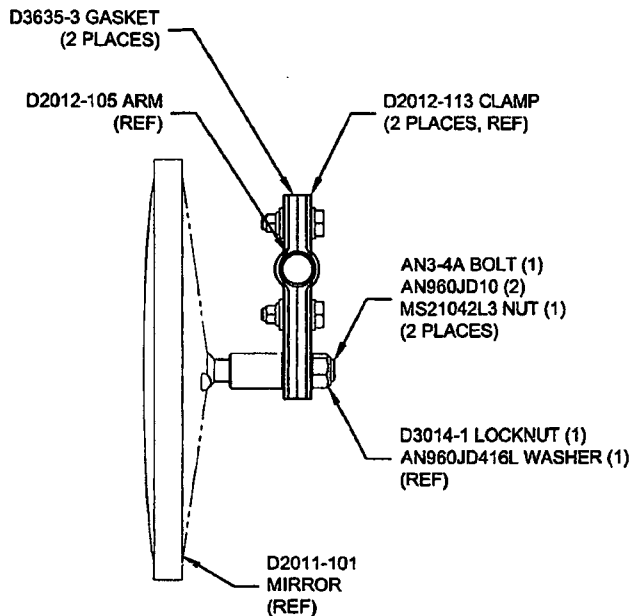


FIGURE 5: D350-561-045 INSTALLATION

4.0 WEIGHT AND BALANCE

The following is the weight and balance information for the *D350-561-141 Single Mirror Kit* and the *D350-561-143 Dual Mirror Kit*.

Installation	Weight	LATERAL		LONGITUDINAL	
		Arm	Moment	Arm	Moment
D350-561-141	2.5 lb	+36.1 in	+90.3 in-lb	9.0 in	22.5 in-lb
Single Mirror Installation	1.1 kg	+0.92 m	+1.0 m-kg	0.23 m	0.25 m-kg
D350-561-143	3.2 lb	+36.1 in	+115.5 in-lb	8.8 in	28.2 in-lb
Dual Mirror Installation	1.5 kg	+0.92 m	+1.4 m-kg	0.22 m	0.33 m-kg

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